

Flight-Testing Newton's Laws			
2008 Mathematics			
Core Curriculum Content Standards			
New Jersey Mathematics			
Grade 12			
Activity/Lesson	State	Standards	
Session-10 (1-5)	NJ	MA.12.4.2.12 C.1.1	Use coordinate geometry to represent and verify properties of lines and line segments. Distance between two points
Session-10 (1-5)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value
Session-10 (1-5)	NJ	MA.12.4.5 E.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: Symbolic representations (e.g., a formula)
Session-1 (1-17)	NJ	MA.12.4.3.12 C.1.2	Use functions to model real-world phenomena and solve problems that involve varying quantities with direct and inverse variation
Session-1 (1-17)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value
Session-1 (1-17)	NJ	MA.12.4.5 E.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: Symbolic representations (e.g., a formula)
Session-2 (1-10)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value
Session-3 (1-6)	NJ	MA.12.4.2.12 E.2.3	Use a variety of strategies to determine perimeter and area of plane figures and surface area and volume of 3D figures including estimation of area, perimeter, volume, and surface area
Session-3 (1-6)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value
Session-4 (1-11)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value
Session-5 (1-6)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value
Session-5 (1-6)	NJ	MA.12.4.5 E.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: Symbolic representations (e.g., a formula)
Session-6 (1-8)	NJ	MA.12.4.2.12 E.2.3	Estimation of area, perimeter, volume, and surface area
Session-6 (1-8)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value
Session-7 (1-5)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value

Session-7 (1-5)	NJ	MA.12.4.5 E.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: Symbolic representations (e.g., a formula)
Session-8 (1-9)	NJ	MA.12.4.2.12 C.1.2	Use coordinate geometry to represent and verify properties of lines and line segments including midpoint and slope of a line segment
Session-8 (1-9)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value
Session-8 (1-9)	NJ	MA.12.4.5 E.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: Symbolic representations (e.g., a formula)
Session-9 (1-7)	NJ	MA.12.4.3.12 C.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: absolute value
Session-9 (1-7)	NJ	MA.12.4.5 E.1.3	Use coordinate geometry to represent and verify properties of lines and line segments: Symbolic representations (e.g., a formula)